

CLAIMS:

We claim:

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1. A method of transmitting data to a mobile wireless unit without the need for human intervention, the method comprising:

receiving at least one transmission rule;

establishing in a data storage medium at least one priority data structure that

10 defines the at least one transmission rule;

receiving a data download; and

15 automatically transmitting the data download to the mobile wireless unit in accordance with the at least one transmission rule as defined by the at least one priority data structure.

2. The method of claim 1 further comprising:

receiving a result message indicative of whether transmission of a data download was successful;

extracting the result code from the result message; and

20 storing the result code in a log file.

3. A system for transmitting data to a mobile wireless unit without requiring human intervention, the system comprising, in combination:

a database;

a data download stored in the database; and

5 a controller communicatively coupled to the database,

wherein the controller is programmed to format at least one transmission rule into at least one priority data structure;

wherein the controller receives the data download from the database;

0 wherein the controller transmits the data download to the mobile wireless unit in accordance with the at least one transmission rule as defined by the at least one priority data structure.

4. The system of claim 3 wherein the at least one priority data structure comprises a priority mapping table.

5 5. The system of claim 3 wherein the at least one priority data structure comprises a resource allocation table.

6. The system of claim 3 wherein the at least one priority data structure
20 comprises an off-peak settings table.

7. The system of claim 3 wherein the data download comprises a PRL.

8. The system of claim 3 further comprising a user interface, the user interface being communicatively coupled to the controller, the user interface receiving the at least one transmission rule from a human user and providing the at least one transmission rule to the controller.

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9. A system for downloading data to a mobile wireless unit without the need for human intervention, the system comprising, in combination:

a database;

a data download stored in the database;

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a business logic server, the business logic server being communicatively coupled to the database, the business logic server receiving at least one transmission rule, wherein the business logic server is programmed to format the at least one transmission rule into at least one priority data structure, and wherein the business logic server receives the data download from the database; and

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a network logic server, the network logic server being communicatively coupled to the business logic server, the network logic server receiving from the business logic server the at least one priority data structure and the data download and, wherein the network logic server transmits the data download to the mobile wireless unit in accordance with the at least one transmission rule as defined by the at least one priority

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data structure.

10. The system of claim 9 further comprising a user interface, the user interface being communicatively coupled to the business logic server, the user interface

receiving the at least one transmission rule from a human user, the user interface sending the at least one transmission rule to the business logic server.

11. The system of claim 9 wherein the at least one priority data structure is a
5 priority mapping table.

12. The system of claim 9 wherein the at least one priority data structure is an off-peak setting table.

10 13. The system of claim 9 wherein the at least one priority data structure is a resource allocation table.

14. The system of claim 9 wherein the data download comprises a PRL.

15 15. A network logic server comprising, in combination:
a memory;

a processing module, said processing module receiving from a business logic server at least one priority data structure and a data download and, wherein the processing module transmits the data download to the mobile wireless unit in accordance with the at
20 least one transmission rule as defined by the at least one priority data structure.

16. The network logic server of claim 15 wherein the data download comprises a PRL.

17. A network for sending a data download to a mobile wireless unit, the network comprising, in combination:

a database;

5 a data download stored in the database;

a business logic server communicatively coupled to the database, the business logic server receiving at least one transmission rule, wherein the business logic server is programmed to format the at least one transmission rule into at least one priority data structure, and wherein the business logic server receives the data download from the database;

a network logic server communicatively coupled to the business logic server;

an uplink module communicatively coupled to the network logic server;

a gateway communicatively coupled to the uplink module;

an MCC communicatively coupled to the gateway;

15 a wireless network communicatively coupled to the MCC and the uplink module;

a mobile wireless unit communicatively coupled to the wireless network;

wherein the network logic server receives from the business logic server the at least one priority data structure and the data download and, wherein the network logic server transmits the data download to the uplink module in accordance with the at least one transmission rule defined by the at least one priority data structure;

20 wherein the uplink module receives the data download, and, responsively, generates at least one control message;

wherein the uplink module sends the at least one control message to the gateway;

wherein the gateway receives the at least one control message, and, wherein the gateway is programmed to re-format the at least one control message into a re-formatted at least one control message;

wherein the gateway sends the re-formatted at least one control message to the
5 MCC;

wherein the MCC receives the re-formatted at least one control message, and responsively, generates a request message, and wherein the MCC transmits the request message to the wireless network;

wherein the wireless network receives the request message and sends the request
10 message to the mobile wireless unit;

wherein the mobile wireless unit receives the request message and generates a response message responsively to receiving the request message, wherein said mobile wireless unit transmits the response message to the uplink module, wherein the response message indicates whether the mobile wireless unit is available to receive the data
15 download;

wherein the uplink module receives the response message and transmits the data download to the wireless network if the response message indicates the mobile wireless unit is available; and

wherein the wireless network transmits the data download to mobile wireless unit.